(v) Registration of ground water extracting tubewells/boreholes in NCT of Delhi by Central Ground Water Authority (CGWA) for streamlining the ground water extraction activities.

(vi) CGWA has notified South and South-West districts of NCT of Delhi based on the studies carried out by the CGWB.

(vii) CGWA has carried out mass awareness campaign to create awareness among general public, industrialist and industrial workers regarding pollution and over-exploitation of ground water.

(viii) Pilot projects of rain water harvesting has been taken up in NCT of Delhi.

(ix) CGWB has provided technical guidance and assistance to various institutions, private agencies, NGO and general public desirous for taking up rain water harvesting in their premises.

Flood prone areas

4796. PROF. ALKA BALRAM KSHATRIYA : Will the Minister of WATER RESOURCES be pleased to state :

(a) the State-wise flood prone areas in the country recorded in each plan period from First to Ninth Five Year Plan;

(b) whether dams on the rivers are causing dryness/silting of all river beds thereby causing floods; and

(c) if so, the remedial steps Government propose to take in this regard?

THE MINISTER OF STATE IN THE MINISTRY OF WATER RESOURCES (SHRIMATI BIJOYA CHAKRAVARTY) : (a) Rashtriya Barh Ayog (RBA) has assessed the flood prone area in the country as 40 mha. in 1980 using the data on flood affected area during 1953—78.

The flood affected area is collected and reported by Revenue Authorities of States. Central Water Commission has compiled the data since 1953 on the basis of information received from State Revenue Authorities. The Statement of State-wise and Plan-wise total flood affected area from 1st Plan to IXth Plan is enclosed (*See* below).

(b) and (c) Dams do have some morphological impact on the upstream as well as downstream of the river. The impact varies from location to location and also temporarily. But the hypothesis that dams can cause dryness or silting is unfounded in the absence of any back-up scientific study.

Statement

State-wise and Plan-wise total flood affected area in the country

(Area in m. ha.)

States	1st Plan (1953-56)	2nd Plan (1956-61)	3rd Plan (1961-66)	Annual Plan (1966-69)	4th Plan (1969-74)	5th Plan (1974-78)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Andhra Pradesh	0.070	1.590	0.390	0.110	0.360	1.010
Arunachal Pradesh	0.000	0.000	0.000	0.000	0.000	0.000
Assam	4.640	3.760	3.750	2.450	2.180	2.800
Bihar	5.240	4.350	4.200	0.000	0.000	9.590
Goa	0.000	0.000	0.000	3.510	5.410	0.000
Gujarat	0.000	1.740	0.370	01.70	1.060	2.180
Haryana	0.130	0.780	1.210	0.750	0.400	1.770
Himachal Pradesh	0.000	0.230	0.000	0.000	0.140	0.040
Jammu and Kashmir	0.050	0.130	0.000	0.020	0.000	0.030
Karnataka	0.000	0.000	0.030	0.000	0.030	0.000
Kerala	0.000	0.310	0.200	0.870	0.180	1.000
Madhya Pradesh	0.290	0.200	0.110	0.050	0.060	0.110
Maharashtra	0.000	0.340	0.220	0.020	0.140	0.090
Manipur	0.000	0.010	0.020	0.080	0.070	0.030
Meghalaya	0.000	0.000	0.000	0.000	0.000	0.020
Mizoram	0.000	0.000	0.000	0.000	0.000	0.000
Nagaland	0.000	0.000	0.000	0.000	0.000	0.000
Orissa	0.660	2.960	1.540	1.760	2.130	1.010
Punjab	0.930	1.750	2.830	0.350	0.160	0.470
Rajasthan	0.000	0.080	0.160	0.590	0.350	3.640
Sikkim	0.000	0.000	0.000	0.000	0.000	0.000
Tamil Nadu	0.000	0.040	0.560	0.000	0.130	0.340
Tripura	0.020	0.070	0.410	0.240	0.000	0.100
Uttar Pradesh	6.390	9.700	5.750	4.750	8.480	8.460
West Bengal	0.770	5.570	0.670	3.240	4.510	3.430
Delhi	0.030	0.050	0.110	0.050	0.010	0.060
Pondicherry	0.000	0.000	0.000	0.000	0.007	0.050

Statement—Contd.

State-wise and Plan-wise total flood affected area in the country—Contd.

(Area in m. ha.)

States	Annual Plan	6th Plan	7th Plan	Annual Plan	8th Plan	9th Plan
	(1978-80)	(1980-85)	(1985-90)	(1990-92)	(1992-97)	(1997-2002)
(1)	(8)	(9)	(10)	(11)	(12)	(13)
Andhra Pradesh	0.560	1.214	5.232	0.022	1.485	2.037
Arunachal Pradesh	0.000	0.000	0.034	0.000	0.201	0.005
Assam	0.980	4.480	7.150	1.488	3.234	3.352
Bihar	3.180	8.630	8.230	1.850	3.207	6.543
Goa	0.000	0.000	0.000	0.000	0.000	0.000
Gujarat	0.740	2.000	2.073	0.672	2.915	0.000
Haryana	0.720	0.730	0.975	0.087	0.718	0.010
Himachal Pradesh	0.090	0.120	0.820	0.000	1.533	0.815
Jammu and Kashmir	0.000	0.000	0.664	0.000	0.381	0.017
Karnataka	0.200	0.380	0.940	0.276	0.500	0.019
Kerala	0.210	0.720	1.830	1.279	0.802	0.575
Madhya Pradesh	0.160	0.100	0.180	0.051	0.391	0.111
Maharashtra	0.200	0.020	0.380	0.271	0.127	0.054
Manipur	0 000	0.150	0.177	0.000	0.000	0.000
Meghalaya	0.000	0.000	0.135	0.003	0.019	0.000
Mizoram	0.000	0.000	0.000	0.000	0.000	0.002
Nagaland	0 000	0.000	0.008	0.000	0.009	0.000
Orissa	0.710	2.570	2.299	1.875	0.735	2.112
Punjab	0.150	0.110	3.700	0.004	1 154	0.137
Rajasthan	2.350	0.960	0.760	1.799	1.946	0.182
Sikkim	0 000	0.040	0.010	0.000	0.000	0.000
Tamil Nadu	0 040	0.244	0.004	0.000	0.245	0.001
Tripura	0.010	0.150	0.033	0.000	0.053	0.000
Uttar Pradesh	8.040	19.900	9.853	3.019	5.528	4.299
West Bengal	3.100	3.500	4.611	2.947	1.523	5.579
Delhi	0.070	0 020	0.000	0 000	0 058	0.000
Pondicherry	0 000	0 009	0.011	0.012	0.009	0.000

Note :—(1) Figures of Bihar, M.P. and U.P. include Jharkhand, Chhattisgarh and Uttaranchal respectively.

(2) Figures in respect of other U.T's are either not reported or Nil expect A. & N. Islands (0.03 in 1988).